

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A motor stator assembly comprising:

a plurality of yokes, each yoke comprising a plurality of laminated yoke plates stacked on one another in the direction of the longitudinal axis of the motor stator assembly comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, ~~the poles engaged between the yokes and comprising a molded magnetic material~~ each pole comprising a molded magnetic material, said plurality of poles being integrally engaged between the plurality of yokes at molding.

2. (Previously Presented) The assembly of claim 1, wherein at least one of the poles comprises:

a guide having a circular arc shape, for collecting magnetic flux;

a winding portion connected to a rear surface of the guide, on which the coil is wound; and

a connector formed at a rear surface of the winding portion and connected to at least one of the yokes.

3. (Currently Amended) The assembly of claim 1, wherein at least one of the poles comprises of iron powder.

4. (Previously Presented) The assembly of claim 2, further comprising an insulator attached to an inside of the winding portion and the pole for insulating the pole from the coil.

5. (Previously Presented) The assembly of claim 2, further comprising a molded nonconductive material provided at an inner side of the winding portion and the pole for insulating the pole from the coil.

6. (Previously Presented) The assembly of claim 5, wherein the nonconductive material comprises epoxy.

7. (Previously Presented) The assembly of claim 2, wherein the guide comprises an inner surface of a circular arc shape, for collecting magnetic flux to a rotor by guiding the rotor.

8. (Currently Amended) The assembly of claim 2, wherein a height and a length of the winding portion are less than a height and a length of the guide, ~~preventing~~ wherein the coil is prevented from protruding out of the guide when the coil is wound on the winding portion and ~~allowing the coil to be~~ can be wound several times, and an outer circumference surface of the winding portion is ~~formed concavely~~ concave so that the coil can be wound thereon.

9. (Currently Amended) The assembly of claim 2, wherein an edge, at an outer circumference surface of the winding portion is ~~formed as a curved line in order to~~ prevent ~~coating of the~~ a coil coating from falling off when the coil is wound.

10. (Previously Presented) The assembly of claim 2, wherein the connector has a circular arc shape and comprises a plate having a constant height and a width.

11. (Previously Presented) The assembly of claim 10, wherein the yoke is engaged between two connectors and the plurality of yoke plates are laminated to have the height of the connector.

12. (Previously Presented) The assembly of claim 11, wherein a connecting projection and a connecting groove for engaging the yoke and the connector are formed with the same height as the yoke and the connector.

13. (Previously Presented) The assembly of claim 12, wherein the connecting projection has a protruding rectangular shape and engages with a rectangular connecting groove in order to prevent the yoke from being separated from the connector.

14. (Withdrawn) The assembly of claim 12, wherein the connecting projection has a protruding trapezoid shape and engages with a trapezoid connecting groove.

15. (Withdrawn) The assembly of claim 12, wherein the connecting projection has two stopping jaws on its sides and engages with a stopping groove having a groove of a corresponding shape in order to prevent the yoke from being separated from the connector.

16. (Withdrawn) The assembly of claim 12,
wherein the connecting projection has a protruding step projection and engages with a corresponding step projection groove.

17. (Withdrawn) The assembly of claim 12,
wherein the connecting projection comprises an inclined surface and engages with a connecting groove having a corresponding inclined surface.

18. (Withdrawn) A manufacturing method of a motor stator assembly comprising:

forming a plurality of yoke plates by blanking steel plate of a predetermined shape;

forming a yoke by laminating the yoke plates with a predetermined height;

forming a predetermined frame by installing the laminated yoke into a mold;

filling magnetic powder material in an empty space of the mold;

forming a pole engaged to the yoke by applying a predetermined pressure and heat to the filled magnetic powder material; and

removing the mold and winding coil to the pole.

19. (Withdrawn) The method of claim 18, wherein forming the yoke plates comprises blanking the steel plate having a predetermined length and a width at a time.

20. (Withdrawn) The method of claim 18, wherein forming the pole comprises pressing and curing the magnetic powder material at 300-500° C.

21. (Withdrawn) The method of claim 18, further comprising one of attaching an insulator to a contacted part between the pole and the coil, and molding insulating material attached thereto to wind the coil on the pole.

22. (Withdrawn) A motor stator assembly comprising:

a plurality of yokes comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, engaged between the yokes, the poles comprising a predetermined frame defined by the laminated yoke positioned in a mold, magnetic powder material provided in an empty space of the mold, a predetermined pressure and heat applied to the filled magnetic powder material.